

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/004360

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16N15/00 F16N39/04 F16N29/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F16N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 14834 A A.D. 1912 (HALL) 17 October 1912 (1912-10-17) page 1, line 5,6 – line 30-32 page 2, line 8-12; figure 1	1,4
A	GB 141 930 A (VAUGHAN) 29 April 1920 (1920-04-29) page 1, line 5-8 –page 3, line 30-38; figure 1	1,4
A	GB 710 102 A (GEORGE EDMUND SWAFFIELD;ALBANY ENGINEERING COMPANY LTD) 9 June 1954 (1954-06-09) page 1, line 15-18 –page 2, line 15-51; figures 1,2	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

27 July 2004

Date of mailing of the international search report

04/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5618 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Vedoato, L

INTERNATIONAL SEARCH REPORTInternational Application No
PCT/EP2004/004360**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 426 865 A (EXNER KLAUS ET AL) 24 January 1984 (1984-01-24) column 1, line 41-46; figures 2,5 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/004360

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
GB 191214834	A 17-10-1912	NONE		
GB 141930	A 29-04-1920	NONE		
GB 710102	A 09-06-1954	NONE		
US 4426865	A 24-01-1984	DE 3040886 A1 16-06-1982	CA 1179295 A1 11-12-1984	
		DE 3164591 D1 09-08-1984	EP 0051159 A1 12-05-1982	
		ES 8206230 A1 16-11-1982	IN 155365 A1 19-01-1985	
		JP 1283370 C 27-09-1985	JP 57103734 A 28-06-1982	
		JP 60002127 B 19-01-1985		